

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Previously Presented) A method of communication in transmitting/receiving stations in a wireless communication network, in which multi-receiver frames are exchanged between a station and a plurality of other stations indicating the transmitting station and the receiving station operate in an omnidirectional manner using omnidirectional antennas at the transmitting station and at the receiving station, and mono-receiver frames are exchanged between the transmitting station and the receiving station when operating in a directional manner using directional antennas at the transmitting station and at the receiving station, wherein the transmission in an omnidirectional manner is effected in a more robust fashion than the transmission in a directional manner using a directional antenna.

2. (Previously Presented) The method according to claim 1, wherein the more robust transmission is effected at a lower throughput than a less robust transmission.

3. (Previously Presented) The method according to claim 1, wherein the mono-receiver frames are modulated by a modulation with a first number of phases and in that the multi-receiver frames are modulated by a modulation with a second number of phases, and in that the first number of phases is greater than the second number of phases.

4. (Previously Presented) The method according to claim 3, wherein the mono-receiver frames are modulated by a modulation with more than two phases and in that the multi-receiver frames are modulated by a two phase modulation.

5. (Previously Presented) The method according to claim 1, wherein the mono-receiver frames are coded with a first forward error correction rate and the multi-receiver frames are coded with a second forward error correction rate, and in that the first rate is higher than the second rate.

6. (Previously Presented) The method according to claim 5, wherein the mono-receiver frames and the multi-receiver frames are modulated by the same modulation.

7. (Currently Amended) The method according to claim 1, wherein the transmission is in compliance with one of the standards belonging to the set comprising:

- Hiperlan type 2; and
- IEEE 802.11a₁

8. (Previously Presented) The method according to claim 1, wherein the transmission is in compliance with IEEE 802.11g.

9. (Previously Presented) A transmitting and receiving station for a wireless communication network, wherein said station comprises:

an omnidirectional antenna to transmit and receive multi-receiver frames in an omnidirectional manner indicating the transmitting and the receiving station; and

at least one directional antenna to transmit and receive mono-receiver frames in a directional manner, and wherein, determined by the multi-receiver frames, the transmission in a omnidirectional manner being effected in a more robust fashion than the transmission in a directional manner.

10 – 14. (Cancelled)

15. (Previously Presented) The station according to claim 9, comprising four directional antennas oriented at 90° with respect to one another.

16 – 17. (Cancelled)

18. (Previously Presented) The station for a wireless communication network according to claim 9 comprising several transmitting and receiving stations.